I August	1900	
		25X1

TITIE: Image Analysis Program

Report No. TO-B 67-20 on Image Analysis

25X1

21 April 1967

WORK PROGRAM: Infectious Development Experiment: Consisting Of Counting The Silver Halide Crystals (Singles and In Clumps) In Exposed Undeveloped Sub-Mono Grain Layer Model Emulsion Number N-2-0056.

MORE SPECIFICALLY

1. Photographed undeveloped film samples, from emulsion N-2-0056, under high magnification (1700x) and took a sufficiently large number of frames to encompass 9560 grains.

Micrographs were printed high contrast in the positive form on 8 x 10 inches D.W. Matt Photo Paper.

- 2. Determined how many single isolated grains there are and how many grains are situated inclumps by actually counting:
 - A. average total grains in all the eleven 8 x 10 photo prints (870 grains)
 - B. Average isolated single grains in all the eleven frames. (121 single grains)
 - C. Subtracted average total of single isolated grains from average total of all grains to yield total of grains in clumps. (749 in clumps)
 - D. Calculate average isolated singles as a percentage of average total grains counted in each $8 \times 10 \text{ print.}$
 - 121 grains or 14% average isolated single grains counted in a given area. (8" x 10" Photo print at 1700X)
 - 3. See attachment 1.

1	August	1968

25X1

WORK PROGRAM: Infectious Development Experiments Consisting Of Counting The Silver Halide Crystals (Singles and In Clumps) In Exposed Undeveloped Sub-Mono Grain Layer Model Emulsion Number N-2-0056.

Photomicrograph Plate Number	Silver Halide Isolated Single Crystals	Silver Halide Isolated Single Crystals	Silver Halide Crystals in Clumps	Silver Halide Crystals in Clumps
Number	Count	Per Cent	Count	Per Cent
ı	112'	13%	729	87%
1-A	130	16%	670	34%
2	123	15%	712	85%
3	120	14%	762	86%
4	108	13%	750	87%
5	120	13%	784	87%
6	130	14%	763	86%
7	134	15%	786	85%
8	113	14%	712	86%
9	110	13%	761	87%
10	126	14%	805	86%
				•
Total 11 Plates Averages	1326 Singles 120.6	14%	8234 In Clum; 748.6	s 86%